

EXHIBIT J

1 IN THE UNITED STATES DISTRICT COURT

2 FOR THE EASTERN DISTRICT OF TEXAS

3 MARSHALL DIVISION

4 ENTROPIC COMMUNICATIONS,

5 LLC,

6 Plaintiff,

Case No.

7 vs.

2:22-cv-00125-JRG

8 CHARTER COMMUNICATIONS,

9 INC.,

10 Defendant.

11 ~~~~~

12
13
14 REMOTE VIDEO DEPOSITION OF

15 RICHARD A. KRAMER

16
17
18 August 24, 2023

19 10:08 a.m. Central

20
21
22
23 Stenographically Reported By:


24 Deanna Amore - CRR, RPR, CSR - 084-003999

<p style="text-align: right;">Page 2</p> <p>1 APPEARANCES OF COUNSEL (All Participants Appeared Remotely.)</p> <p>2 On Behalf of the Plaintiff, ENTROPIC</p> <p>3 COMMUNICATIONS, LLC:</p> <p>4 K&L GATES LLP</p> <p>5 CONNOR MEGGS</p> <p>6 70 West Madison Street</p> <p>7 Suite 3300</p> <p>8 Chicago, Illinois 60602</p> <p>9 connor.meggs@klgates.com</p> <p>10 On Behalf of the Defendant, CHARTER COMMUNICATIONS,</p> <p>11 INC.:</p> <p>12 ARNOLD & PORTER</p> <p>13 MARC COHN</p> <p>14 601 Massachusetts Avenue NW</p> <p>15 Washington, D.C. 20001</p> <p>16 marc.cohn@arnoldporter.com</p> <p>17 ALSO PRESENT:</p> <p>18 Tim Tupiak, Legal Videographer</p> <p>19 Matthew Laurence, Concierge-Technician</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 4</p> <p>1 EXHIBITS</p> <p>2 NUMBER DESCRIPTION PAGE</p> <p>3 Exhibit 9 Li - U.S. Patent 9</p> <p>4 Application 2007/0098089;</p> <p>5 CHARTER_ENTROPIC00035923-</p> <p>6 939</p> <p>7 Exhibit 10 Dauphinee U.S. Patent 9</p> <p>8 7.522.901;</p> <p>9 CHARTER_ENTROPIC00380676-</p> <p>10 681</p> <p>11 Exhibit 11 8.11.2023 Expert Rebuttal 9</p> <p>12 Report of Richard A.</p> <p>13 Kramer</p> <p>14 Exhibit 12 Errata to Expert Report 10</p> <p>15 of Dr. Richard A. Kramer</p> <p>16 Exhibit 13 Asserted Patents Claim 11</p> <p>17 Language</p> <p>18 Exhibit 14 7.12.2023 Deposition 83</p> <p>19 Transcript of Curtis</p> <p>20 Ling, Ph.D.</p> <p>21 Exhibit 15 October 1989 Networking 103</p> <p>22 Working Group Internet</p> <p>23 Engineering Task Force;</p> <p>24 ENTROPIC_CHARTER0018562-</p> <p>25 677</p>
<p style="text-align: right;">Page 3</p> <p>1 INDEX</p> <p>2 WITNESS EXAMINATION</p> <p>3 RICHARD A. KRAMER</p> <p>4 EXAMINATION BY MR. COHN 6</p> <p>5 EXAMINATION BY MR. MEGGS 133</p> <p>6 EXHIBITS</p> <p>7 Exhibit 1 U.S. Patent 8,223,775 8</p> <p>8 Exhibit 2 U.S. Patent 9,210,362 8</p> <p>9 Exhibit 3 Richard Kramer Curriculum 8</p> <p>10 Vitae</p> <p>11 Exhibit 4 Materials Considered to 8</p> <p>12 Expert Report of Dr.</p> <p>13 Richard Kramer</p> <p>14 Exhibit 5 Dong - U.S. Patent 8</p> <p>15 Application 2004/0160945;</p> <p>16 CHARTER_ENTROPIC00381592-</p> <p>17 1607</p> <p>18 Exhibit 6 Brooks - U.S. Patent 9</p> <p>19 Application 2001/0039600;</p> <p>20 CHARTER_ENTROPIC00217633-</p> <p>21 -646</p> <p>22 Exhibit 7 Zhang - U.S. Patent 9</p> <p>23 6,704,372</p> <p>24 Exhibit 8 Favrat U.S. Patent 9</p> <p>25 7,265,792</p>	<p style="text-align: right;">Page 5</p> <p>1 THE VIDEOGRAPHER: Good morning. We are going</p> <p>2 on the record. The time is 10:08 a.m. Central Time</p> <p>3 on August 24, 2023.</p> <p>4 Quality of recording depends on quality of</p> <p>5 camera and Internet connection of participants.</p> <p>6 What is heard from the witness and seen on the</p> <p>7 screen is what will be recorded.</p> <p>8 Audio and video recording will continue to</p> <p>9 take place unless both parties agree to go off the</p> <p>10 record. 10:08:18</p> <p>11 This is Media Unit No. 1 in the</p> <p>12 video-recorded deposition of Dr. Richard Kramer,</p> <p>13 taken in the matter of Entropic Communications, LLC</p> <p>14 versus Charter Communications, Incorporated, filed</p> <p>15 in the United States District Court for the</p> <p>16 Eastern District of Texas Marshall Division,</p> <p>17 Case No. 2:22-cv-00125-JRG.</p> <p>18 My name is Tim Tupiak. I'm the</p> <p>19 videographer. The court reporter is Deanna Amore.</p> <p>20 We are both with the firm Veritext Legal Solutions. 10:08:53</p> <p>21 I am not related to any party in this</p> <p>22 action, nor am I financially interested in the</p> <p>23 outcome.</p> <p>24 If counsel will now state their</p> <p>25 appearances and affiliations for the record,</p>

2 (Pages 2 - 5)

<p style="text-align: right;">Page 14</p> <p>1 approximately 10. There's also been -- for 2 validity, I worked with the patent owners. Some of 3 those have been -- I have helped address just 4 giving my technical opinions during, like, the 5 patent owner response, and so some of those were 6 dealt with at that level, and then -- or I've 7 written testimony on behalf of the patent holder. 8 Q. In terms of your involvement in IPRs 9 before the patent office, how many times have you 10 rendered an opinion that patent claims were 10:20:02 11 unpatentable as opposed to patentable? 12 A. As far as the numbers of matters I worked 13 on, it's about 50/50 split. Again, some of this 14 stuff didn't see the light of day because -- but 15 the -- as far as the number of IPRs I've done, it 16 would probably be around maybe ten. 17 Q. Have you testified in front of a jury 18 before in a patent case? 19 A. No, sir, never. 20 (Stenographer clarification.) 10:20:45 21 THE WITNESS: I believe I said ten. 22 And that ten doesn't represent some things 23 that -- where there was never a declaration ever 24 issued. The ten -- there's a broader number than 25 ten where both for the patent owner and for the</p>	<p style="text-align: right;">Page 16</p> <p>1 these things. 2 The term "wideband" in the '362 patent is 3 not given a special definition in that patent; is 4 that correct? 5 A. What do you mean by "special definition"? 6 Q. Is there a passage of the '362 patent that 7 provides a definition of wideband? 8 A. As one skilled in the art in reading 9 wideband, there is the discussion about the fact 10 that, for example, in column 4, that the frequency 10:23:14 11 bandwidth spectrum could be any -- any portion. 12 In column 5, there's a discussion, for 13 example, with respect to bandwidth, UBW1, for 14 instance, the frequency spectrum, that it would be 15 understood that it could comprise all available 16 channels that exist in a license frequency spectrum 17 to provide system flexibility, and it can also be 18 all receivable channels within a geographical area. 19 So as one skilled in the art, one would 20 appreciate that wideband would include at least it 10:24:09 21 is a broader term than full band and would include 22 full. 23 Q. Wideband is not limited to full band. 24 That's correct; right? 25 A. Wideband is a broader term. It would</p>
<p style="text-align: right;">Page 15</p> <p>1 defendants where I've worked on other matters, 2 that's a broader number than ten. I don't know 3 what it is, but it's probably 50. I could be 4 wrong. 5 BY MR. COHN: 6 Q. All right. Let's look at the '362 patent, 7 No. 2. 8 A. Okay. 9 Q. This patent is titled "Wideband Tuner 10 Architecture." 10:21:55 11 Do you see that? 12 A. Yes, sir. 13 Q. And the term "wideband" is used in both 14 the specification and in the claims of this patent; 15 right? 16 A. For instance, it's in the title, and it's 17 in the claims, a wideband receiver system, and 18 it's, for instance, in the abstract. 19 Q. And when you say "in the abstract," you 20 don't mean conceptually, you mean in reality, it's 10:22:19 21 in a portion of the patent called the abstract; is 22 that correct? 23 A. On the front page of the patent, thank 24 you, Item No. 57. 25 Q. Aren't always as familiar as we are with</p>	<p style="text-align: right;">Page 17</p> <p>1 include full. 2 Q. And wideband would include bandwidth less 3 than full band; correct? 4 A. Under the umbrella it could include full 5 band. It could include something less than full 6 band. 7 Q. One of the examples given of widebands 8 within the '362 patent is 80 megahertz bandwidth; 9 is that correct? 10 A. Can you show me where? 10:25:10 11 Q. My browser just burped. 12 I believe it's column 2. I'm sorry. It's 13 column 4, approximately line 22. It says "In this 14 example, a number of available channels in BW1 is 15 assumed to be 10 with each channel occupies an 16 8 megahertz bandwidth for a total of 80 megahertz." 17 Do you see that? 18 A. I do see that. 19 Q. And the total of 80 megahertz is an 20 example of a wideband; is that right? 10:26:03 21 A. I think that's a good way of putting it. 22 It's an example. 23 Q. Would a bandwidth incoming to the system 24 described in the '362 patent of only 8 megahertz be 25 considered a wideband?</p>

5 (Pages 14 - 17)

<p style="text-align: right;">Page 142</p> <p>1 subscriber would be again the same. So there</p> <p>2 wouldn't be any undesired channels, and it's being</p> <p>3 selected from undesired.</p> <p>4 BY MR. MEGGS:</p> <p>5 Q. And then what happens when n is greater</p> <p>6 than m?</p> <p>7 MR. COHN: Same objections.</p> <p>8 THE WITNESS: So n could be any number, and so</p> <p>9 then it would be some sort of a selection of n is</p> <p>10 greater than m. 16:42:26</p> <p>11 MR. MEGGS: No further questions.</p> <p>12 MR. COHN: Okay. I don't have any questions.</p> <p>13 I object to that entire redirect as outside of</p> <p>14 scope of his report and outside of scope of my</p> <p>15 questioning, but I don't have any questions.</p> <p>16 MR. MEGGS: Your objection is noted, sir, but</p> <p>17 I obviously disagree.</p> <p>18 THE VIDEOGRAPHER: Are we ready to go off the</p> <p>19 record?</p> <p>20 MR. COHN: We sure are. 16:42:50</p> <p>21 THE VIDEOGRAPHER: We are going off the record.</p> <p>22 The time is 4:42 p.m. This concludes today's</p> <p>23 testimony by Rich Kramer. The total number of</p> <p>24 media unit used was six and will be retained by</p> <p>25 Veritext Legal Solutions. Thank you.</p>	<p style="text-align: right;">Page 144</p> <p>1 CONNOR MEGGS</p> <p>2 connor.meggs@klgates.com</p> <p>3 August 28, 2023</p> <p>4 Entropic Communications v Charter Communications, Inc., Et Al</p> <p>5 8/24/2023, Richard Kramer (#6067726)</p> <p>6 The above-referenced transcript is available for</p> <p>7 review.</p> <p>8 Within the applicable timeframe, the witness should</p> <p>9 read the testimony to verify its accuracy. If there are</p> <p>10 any changes, the witness should note those with the</p> <p>11 reason, on the attached Errata Sheet.</p> <p>12 The witness should sign the Acknowledgment of</p> <p>13 Deponent and Errata and return to the deposing attorney.</p> <p>14 Copies should be sent to all counsel, and to Veritext at</p> <p>15 cs-ny@veritext.com.</p> <p>16</p> <p>17 Return completed errata within 30 days from</p> <p>18 receipt of testimony.</p> <p>19 If the witness fails to do so within the time</p> <p>20 allotted, the transcript may be used as if signed.</p> <p>21</p> <p>22 Yours,</p> <p>23 Veritext Legal Solutions</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 143</p> <p>1 C E R T I F I C A T E</p> <p>2</p> <p>3 I, DEANNA AMORE, a Shorthand Reporter and</p> <p>4 notary public, within and for the State of</p> <p>5 Illinois, County of DuPage, do hereby certify:</p> <p>6 That RICHARD A. KRAMER, the witness whose</p> <p>7 examination is hereinbefore set forth, was first</p> <p>8 duly sworn by me and that this transcript of said</p> <p>9 testimony is a true record of the testimony given</p> <p>10 by said witness.</p> <p>11 I further certify that I am not related to</p> <p>12 any of the parties to this action by blood or</p> <p>13 marriage, and that I am in no way interested in the</p> <p>14 outcome of this matter.</p> <p>15</p> <p>16 IN WITNESS WHEREOF, I have hereunto set my</p> <p>17 hand this 28th day of August 2023.</p> <p>18</p> <p>19</p> <p>20 </p> <p>21 Deanna M. Amore, CRR, RPR, CSR</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 145</p> <p>1 Entropic Communications v Charter Communications, Inc., Et Al</p> <p>2 Richard Kramer (#6067726)</p> <p>3 E R R A T A S H E E T</p> <p>4 PAGE____ LINE____ CHANGE____</p> <p>5 _____</p> <p>6 REASON_____</p> <p>7 PAGE____ LINE____ CHANGE____</p> <p>8 _____</p> <p>9 REASON_____</p> <p>10 PAGE____ LINE____ CHANGE____</p> <p>11 _____</p> <p>12 REASON_____</p> <p>13 PAGE____ LINE____ CHANGE____</p> <p>14 _____</p> <p>15 REASON_____</p> <p>16 PAGE____ LINE____ CHANGE____</p> <p>17 _____</p> <p>18 REASON_____</p> <p>19 PAGE____ LINE____ CHANGE____</p> <p>20 _____</p> <p>21 REASON_____</p> <p>22 _____</p> <p>23 _____</p> <p>24 Richard Kramer Date</p> <p>25</p>